AMENDMENT TO THE CLAIMS:

1. (Currently Amended) A method for facilitating the delivery of a desired molecule into a target tissue ~~comprising~~ consisting essentially of the steps of:

introducing a molecule into a target tissue comprising a cell; ~~and~~

applying an electric field to the target tissue, the application of the electric field consisting of a single continuous low-level electric field applied for a duration of 100ms to 20 minutes; and ~~to effect~~

effecting a change in porosity of the cell of the target tissue in response to the application of the electric field, the change in porosity sufficient to facilitate entry of a desired molecule into an interior of the cell.

2. (Previously Presented) The method recited in Claim 1, wherein the duration of the applying step is in a range of 100ms to 100 sec.

3. (Cancelled)

4. (Original) The method recited in Claim 1, wherein the low-level electric field has a field strength comprising 200V/cm or less.

5. (Cancelled)

6. (Original) The method recited in Claim 1, wherein the electric field comprises a pulse selected from a group of waveforms consisting of square, rectangular, exponentially decaying, exponentially increasing, bipolar, and sinusoidal; waveforms having a nongeometrically characterizable shape; waveforms characterizable by a mathematical function; waveforms characterizable by a mathematical approximation; waveforms with at least one of an AC or a DC offset signal; and waveforms without an AC or a DC offset signal.

7. (Cancelled)

8. (Original) The method recited in Claim 1, wherein the introducing step comprises the step selected from a group consisting of syringe injection, jet injection, oral dosing, transdermal delivery, infusion into tissue, and infusion into a blood vessel.

9. (Cancelled)

10. (Original) The method recited in Claim 1, wherein the target tissue is selected from a group consisting of skin, tumor, muscle, blood, blood vessel, brain, lymph, liver, pancreas, bone, colon, cardiac, lung, breast, testes, cornea, prostate, and intestine.

Claims 11-20 (Cancelled)

21. (Previously Presented) A method for facilitating the delivery of a desired molecule into a target tissue comprising the steps of:

introducing a molecule into a target tissue comprising a cell; and

applying a continuous low-level electric field to the target tissue for a duration of 200ms to 20 minutes to effect a change in porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

22. (Previously Presented) The method recited in Claim 21, wherein the duration of the applying step is in a range of 200ms to 100 sec.

23. (Previously Presented) The method recited in Claim 21, wherein the low-level electric field has a field strength comprising 200V/cm or less.

24. (Previously Presented) The method recited in Claim 21, wherein the applying step comprises applying a plurality of substantially continuous low-level electric pulses to the target tissue, wherein the duration of each substantially continuous low-level electric field is sufficient to effect a change is porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

25. (Previously Presented) The method recited in Claim 21, wherein the electric field comprises a pulse selected from a group of waveforms consisting of square, rectangular, exponentially decaying, exponentially increasing, bipolar, and sinusoidal; waveforms having a nongeometrically characterizable shape; waveforms characterizable by a mathematical function; waveforms characterizable by a mathematical approximation; waveforms with at least one of an AC or a DC offset signal; and waveforms without an AC or a DC offset signal.

26. (Previously Presented) The method recited in Claim 25, wherein the electric field comprises a pulse comprising a combination of at least two of the pulses selected from the group of waveforms.

27. (Previously Presented) The method recited in Claim 21, wherein the introducing step comprises the step selected from a group consisting of syringe injection, jet injection, oral dosing, transdermal delivery, infusion into tissue, and infusion into a blood vessel.

28. (Previously Presented) The method recited in Claim 21, wherein the target tissue is selected from a group consisting of skin, tumor, muscle, blood, blood vessel, brain, lymph, liver, pancreas, bone, colon, cardiac, lung, breast, testes, cornea, prostate, and intestine.

29. (Previously Presented) A system for facilitating the delivery of a desired molecule into a target tissue comprising:

a molecule introducer adapted to introduce a molecule into a target tissue comprising a cell; and

an applicator for applying a continuous low-level electric field to the target tissue for a duration of 200ms to 20 minutes to effect a change in porosity of the cell of the target tissue sufficient to facilitate an entry of a desired molecule into the interior of the cell.

30. (Currently Amended) The system recited in Claim 29, wherein the applicator applies the electric field for a duration of ~~100ms~~ 200ms to 100 sec.

31. (Previously Presented) The system recited in Claim 29, wherein the low-level electric field has a field strength comprising 200V/cm or less.

32. (Previously Presented) The system recited in Claim 29, wherein the applicator applies the low-level electric field in a series of electric pulses.

33. (Previously Presented) The system recited in Claim 29, wherein the electric field comprises a pulse selected from a group consisting of square, rectangular, exponentially decaying, exponentially increasing, bipolar, and sinusoidal; waveforms